

BookletChart™

Upper Green Bay

NOAA Chart 14909

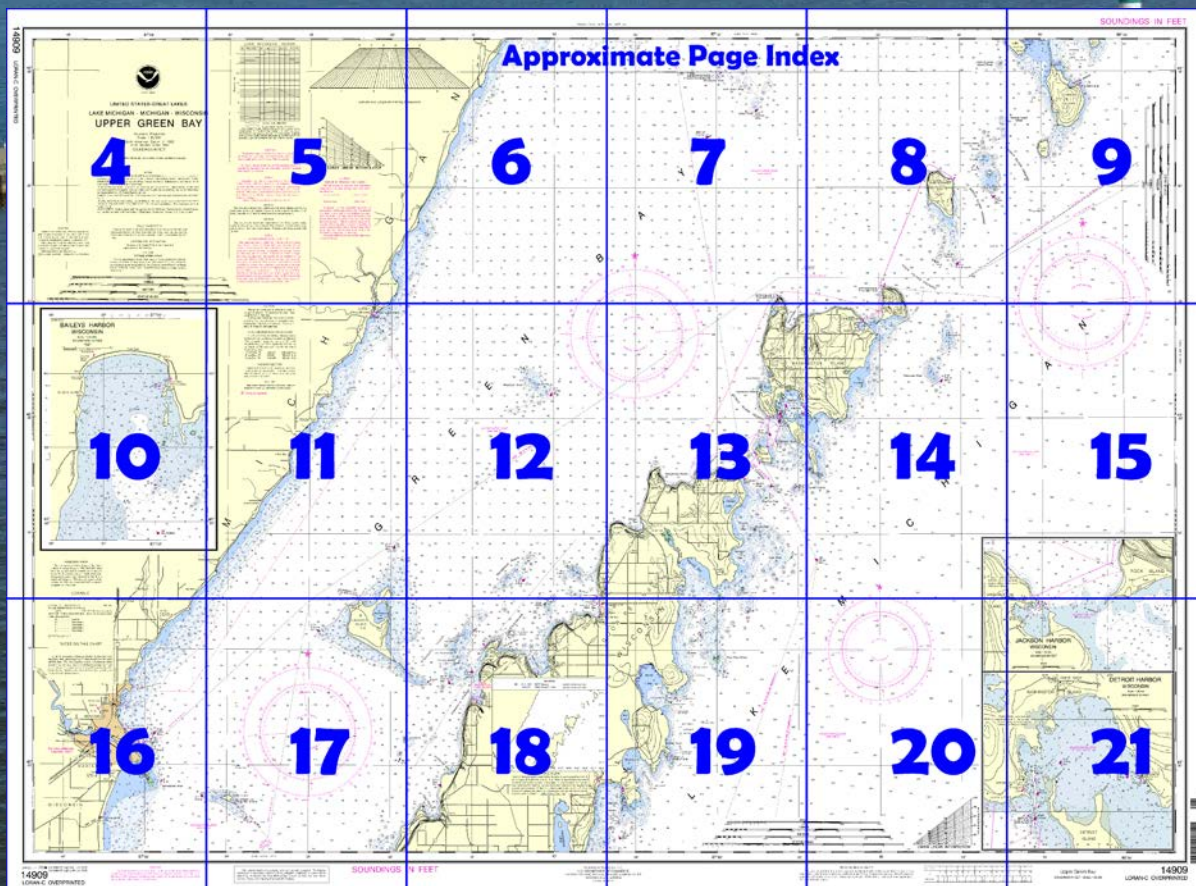


A reduced-scale NOAA nautical chart for small boaters

When possible, use the full-size NOAA chart for navigation.



- Complete, reduced-scale nautical chart
- Print at home for free
- Convenient size
- Up-to-date with Notices to Mariners
- Compiled by NOAA's Office of Coast Survey, the nation's chartmaker



Published by the
National Oceanic and Atmospheric Administration
National Ocean Service
Office of Coast Survey
www.NauticalCharts.NOAA.gov
888-990-NOAA

What are Nautical Charts?

Nautical charts are a fundamental tool of marine navigation. They show water depths, obstructions, buoys, other aids to navigation, and much more. The information is shown in a way that promotes safe and efficient navigation. Chart carriage is mandatory on the commercial ships that carry America's commerce. They are also used on every Navy and Coast Guard ship, fishing and passenger vessels, and are widely carried by recreational boaters.

What is a BookletChart™?

This BookletChart is made to help recreational boaters locate themselves on the water. It has been reduced in scale for convenience, but otherwise contains all the information of the full-scale nautical chart. The bar scales have also been reduced, and are accurate when used to measure distances in this BookletChart. See the Note at the bottom of page 5 for the reduction in scale applied to this chart.

Whenever possible, use the official, full scale NOAA nautical chart for navigation. Nautical chart sales agents are listed on the Internet at <http://www.NauticalCharts.NOAA.gov>.

This BookletChart does NOT fulfill chart carriage requirements for regulated commercial vessels under Titles 33 and 44 of the Code of Federal Regulations.

Notice to Mariners Correction Status

This BookletChart has been updated for chart corrections published in the U.S. Coast Guard Local Notice to Mariners, the National Geospatial Intelligence Agency Weekly Notice to Mariners, and, where applicable, the Canadian Coast Guard Notice to Mariners. Additional chart corrections have been made by NOAA in advance of their publication in a Notice to Mariners. The last Notices to Mariners applied to this chart are listed in the Note at the bottom of page 7. Coast Pilot excerpts are not being corrected.

For latest Coast Pilot excerpt visit the Office of Coast Survey website at <http://www.nauticalcharts.noaa.gov/nsd/searchbychart.php?chart=14909>.



(Selected Excerpts from Coast Pilot)

Baileys Harbor, about 14 miles north of Whitefish Point, is a small bay protected on the east by a point that extends east, then south, from shore. Shoals that extend 1 mile South from the point are marked on the southwest side by a buoy. A shoal with a least depth of 1 foot extends from shore on the west side of the harbor entrance. Shoals extend about 0.25 mile off the east shore of the harbor and 0.5 mile off the north and west shores. **Baileys Harbor**

Directional Light (45°04.2'N., 87°07.2'W.), at the northwest corner of the harbor, shows a higher intensity beam on **340°** which marks the best water into the harbor. Vessels approaching Baileys Harbor should keep

1.5 miles offshore until the white sector is visible. A lighted bell buoy 3 miles south-southeast of the light, in the white sector, marks the harbor entrance.

Baileys Harbor is sheltered and affords good anchorage, but is subject to considerable surge during heavy seas. Vessels should not anchor nearer than 0.5 mile of the north shore of the harbor, as the water is shallow and the sea that sets in during S gales is only partially broken by the shoals outside. The best holding ground is on the east side of the harbor. A yacht club on the northeast side of Baileys Harbor provides transient berths, gasoline, diesel fuel, water, ice, electricity, and sewage pump-out. Emergency repairs are available.

Moonlight Bay opens on the northeast side of the point which forms the east side of Baileys Harbor. The bay has deep water to just inside the entrance and affords fairly good anchorage with protection from all but E to S winds.

Cana Island Light (45°05.3'N., 87°02.8'W.), 83 feet above the water, is shown from a white conical tower on a small island connected to shore by a narrow neck 1.5 miles northeast of Moonlight Bay. From the light N to North Bay, the shore is clear except for numerous submerged net stakes extending about 0.7 mile offshore. In 1995, a dangerous wreck was reported 2 miles north-northeast of Cana Island Light in about 45°06'52.7"N., 87°00'52.0"W.

North Bay, 3 miles north of Cana Island Light, has a small area of deep water near its mouth and affords fair anchorage for small craft with protection from all but E winds. Entrance to the bay is constricted by shoals that extend off each entrance point. The shoals are marked at the ends by buoys. Vessels should take care to avoid abandoned net stakes in the entrance.

From the point that encloses the east side of the North Bay, the shore extends north to Rowley Bay, enclosed on the east by a point on which is located Newport State Park. **Rowley Bay** affords only limited shelter, and the anchorage is not good. The north end of the bay is fouled by many rocky spots covered 2 to 14 feet.

The approach to Rowley Bay is obstructed by numerous shoals. **Four Foot Shoal**, 3 miles long north and south, lies with its north end 1.4 miles south of the point which encloses the east side of the bay. A bank with numerous rocks awash is on the south end of the shoal, and the north end of the shoal has limiting depths of 2 to 6 feet. Buoys mark the west side and south end of the shoal. A shoal with rocks awash near the inner end and a depth of 11 feet near the outer end extends 1.1 miles south from Newport State Park and is marked by a buoy at the outer end. A detached shoal, marked on the south side by a buoy, has 2- and 9-foot spots 1 mile southwest of Newport State Park. A shoal with a least depth of 1 foot extends from shore west of the north end of Four Foot Shoal and is marked at the outer end by a buoy. Rowley Bay may be entered west of Four Foot Shoal, between it and the shore to west. This passage is obstructed by a detached 9-foot shoal west of the midpoint of Four Foot Shoal; the shoal is marked by a buoy on the east side. The bay may also be entered north of Four Foot Shoal.

Sand Bay is a small indentation on the west side of Rowley Bay 1.4 miles south of the head. Slips on the west side of the bay used by commercial fishermen are protected by breakwalls and provide shelter in all winds. The slips have depths of about 6 feet. A resort marina on the west side of the bay provides berths, electricity, gasoline, and sewage pump-out. Waters from Rowley Bay North to Porte des Morts Passage are rendered foul by an irregular bottom with shallow banks and detached spots.

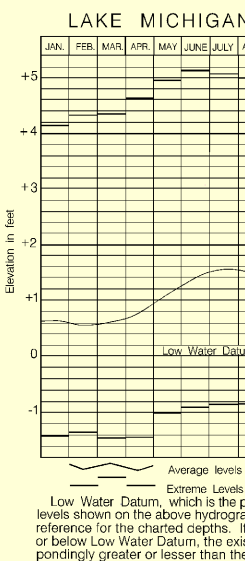
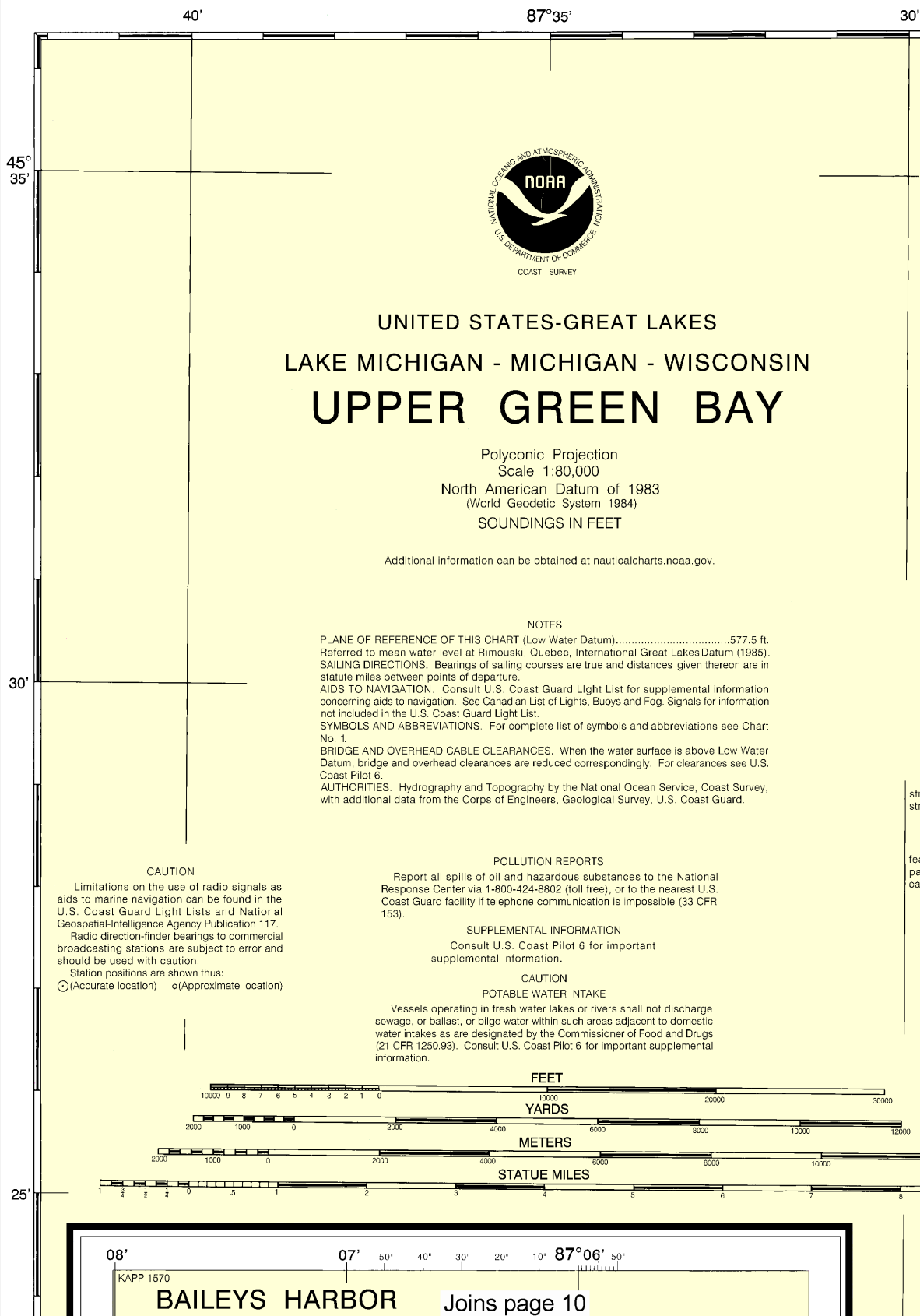
U.S. Coast Guard Rescue Coordination Center 24 hour Regional Contact for Emergencies

RCC Cleveland

Commander

9th CG District
Cleveland, OH

(216) 902-6117



WARNING
The prudent mariner will not rely to navigation, particularly on floating Guard Light List and U.S. Coast Pilot.

Sailing courses and limits indicated by the Lake Carriers Association.

NOTE A
Navigation regulations are published in Coast Pilot 6. Additions or revisions published in the Notice to Mariners. In the regulations may be obtained at the Office of the District Engineer, Detroit, Michigan.

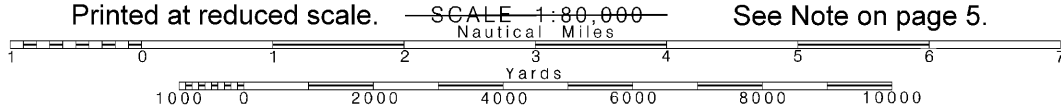
NOTE D
Mariners are warned that numerous structures, some submerged, may exist in structures are not charted unless known to be so.

CAUTION
Due to periodic high water conditions features charted as visible at Low Water particularly in the near shore areas. Map caution.

NOTE Z
NO-DISCHARGE ZONE
This chart falls entirely within the No-Discharge Zone (NDZ). Under the Clean Water Act vessels operating within a No-Discharge Zone are completely prohibited from discharging or untreated, into the waters. Comm shall include graywater. All vessels with sanitation device (MSD) that are anchored, or docked within a NDZ disabled to prevent the overboard (treated or untreated) or install a hold for the NDZ are contained in the Additional information concerning requirements may be obtained from Protection Agency (EPA) web site: owow/oceans/vessel_sewage/vsdn

CAUTION
Temporary changes or deviations of navigation are not indicated on Local Notice to Mariners. During some winter months replaced by ice, certain aids to navigation may be replaced by other types or removed. See U.S. Coast Guard Light List.

Note: Chart grid lines are aligned with true north.



See Note on page 5.

20'

15'

10'

0' 1' 2' 3' 4' 5'

1' 2' 3' 4' 5'

Latitude and Longitude Plotting Interpolator

N

Seagull Point

Creek

Dear

Fox

G

Deadmans Point

Cedar River

FI R 4s 20ft 4 St M 24

FI G 4s 26 Ft 6 St M

FI R 4s 20ft 4 St M 24

FI R 4s 20ft 4 St M 24

FI R 4s 20ft 4 St M 24

FI R 4s 20ft 4 St M 24

FI R 4s 20ft 4 St M 24

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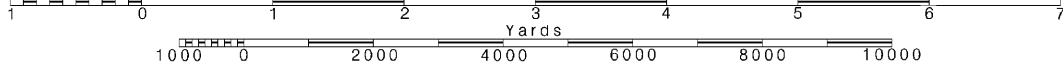
FI R 4s 20ft 4 St M 24

Joins page 12

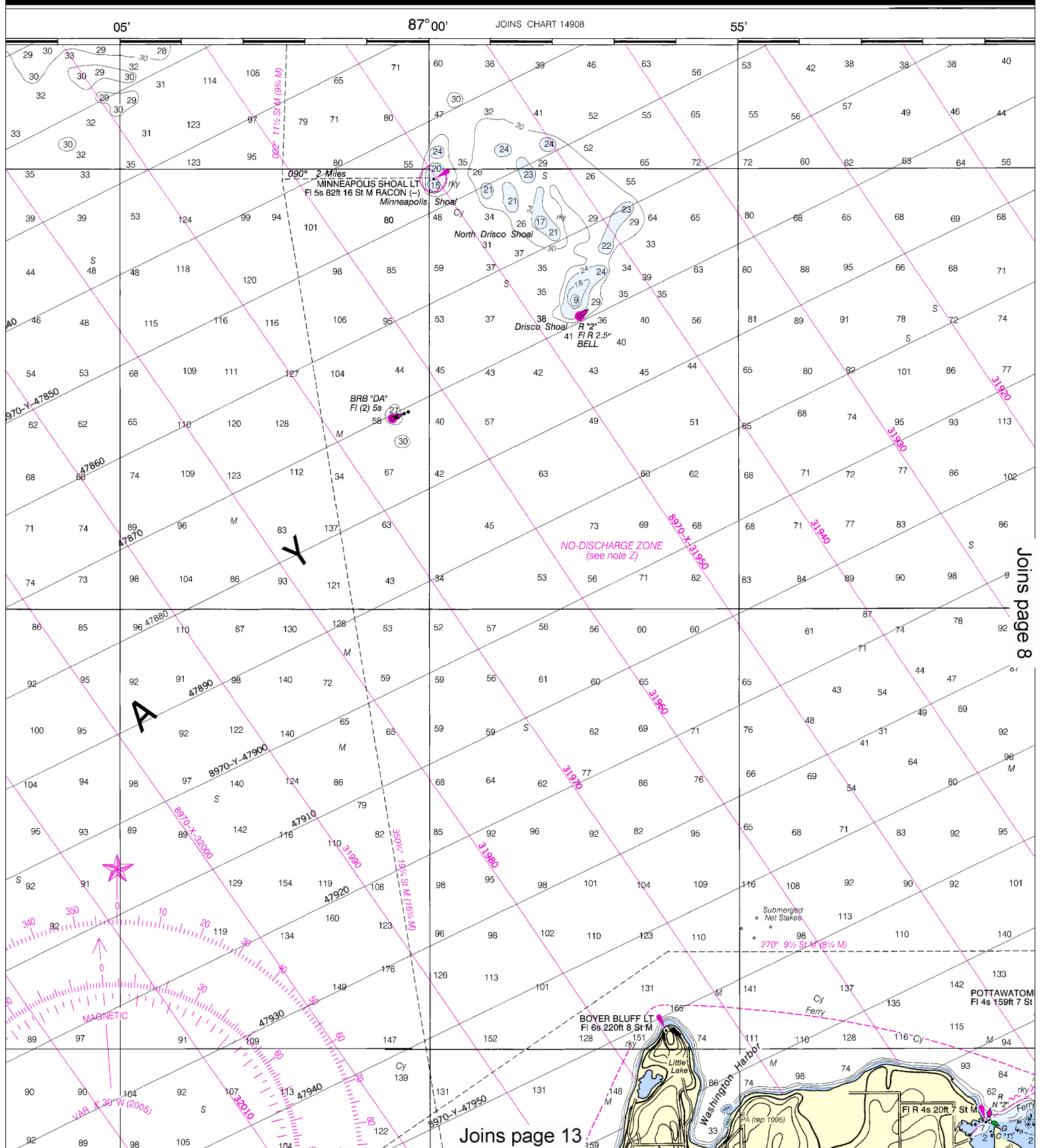
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SCALE 1:80,000
Nautical Miles

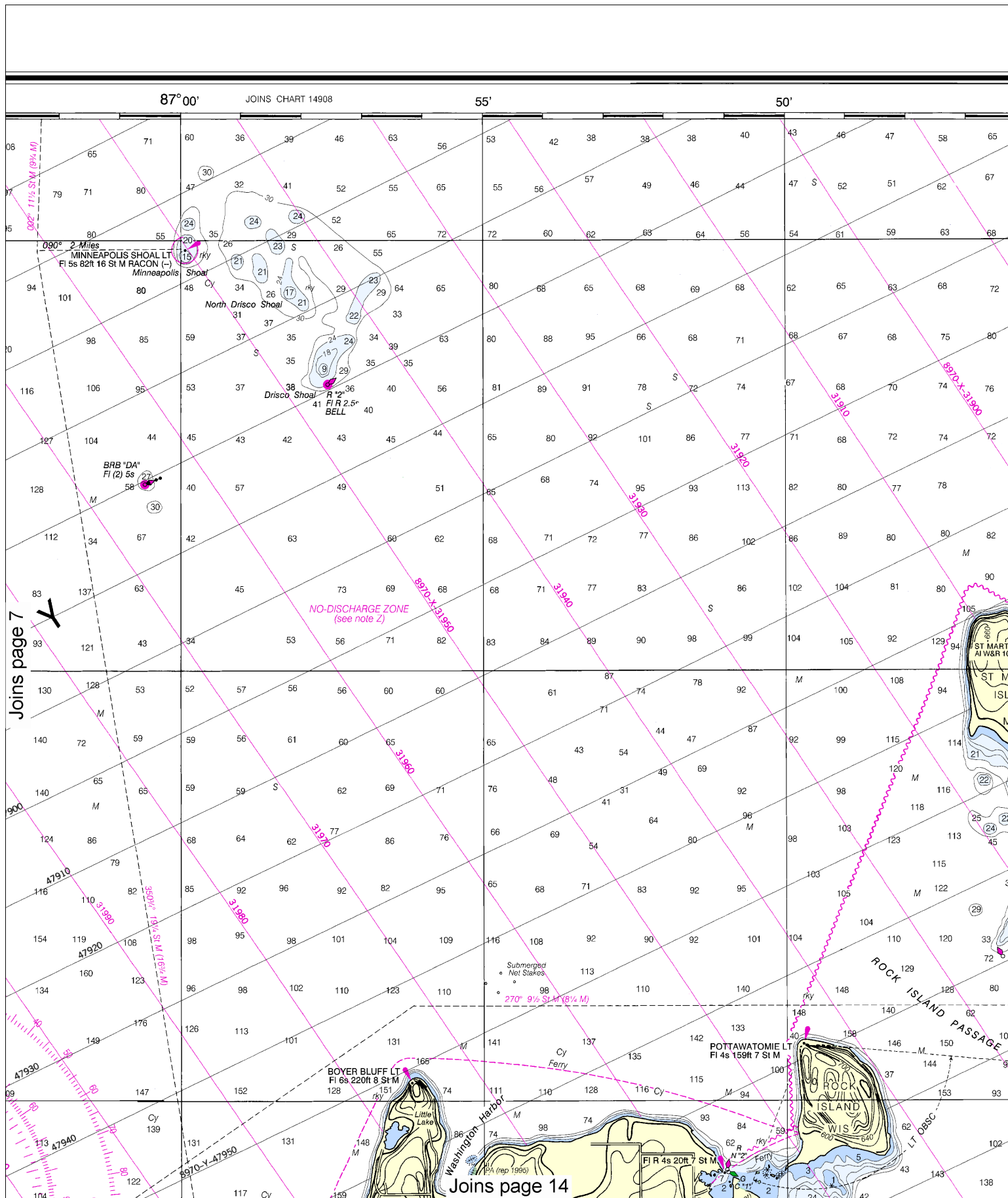
See Note on page 5.



Note: Chart grid lines are aligned with true north.



This BookletChart has been updated through: Coast Guard Local Notice To Mariners: 0513 1/29/2013,
 NGA Weekly Notice to Mariners: 0613 2/9/2013,
 Canadian Coast Guard Notice to Mariners: 0113 1/25/2013.



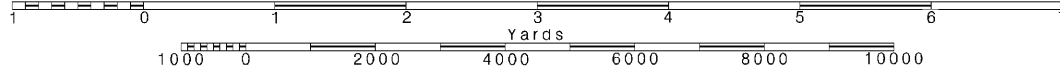
8

Note: Chart grid lines are aligned with true north.

Printed at reduced scale.

SCALE 1:80,000
Nautical Miles

See Note on page 5.



SOUNDINGS IN FEET

45° 35' 40° 86° 35'

Little Summer Island Shoal

Little Summer Island

Summer Harbor

SUMMER ISLAND

Poverty Island Shoal

Poverty Island

POVERTY ISLAND PASSAGE

Gravelly Island

Gravelly Island Shoal

St Martin Island Passage

St Martin Island

St Martin Shoals

Point Detour

Submerged

Stakes

Cy

8970-Y-47900

47910

47920

47930

47940

47960

47970

47980

47990

8970-Y-48000

48010

48020

2005

4° 45' W

ANNUAL INCREASE 4

MAGNETIC

056° 52 Miles to Seal Choo Light

241° 35' S.M. (30° M)

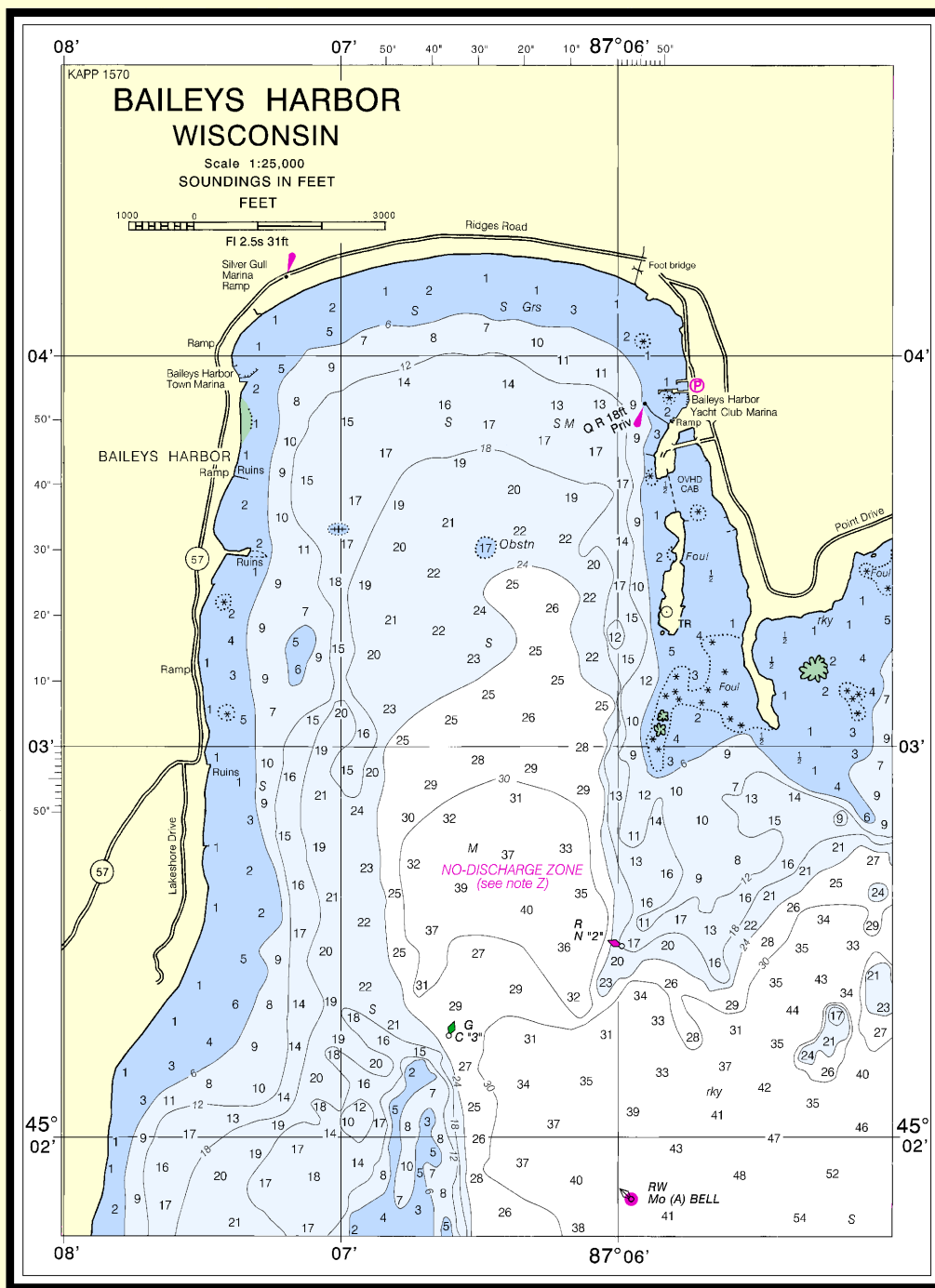
FEET

YARDS

METERS

STATUTE MILES

Joins page 15



HORIZONTAL DATUM
The horizontal reference datum of this chart is North American Datum of 1983 (NAD 83), which for charting purposes is considered equivalent to the World Geodetic System 1984 (WGS 84). Geographic positions referred to the North American Datum of 1902 must be corrected an average of 0.328' southward and 0.692' westward to agree with this chart.

LORAN-C
GENERAL EXPLANATION

LORAN-C FREQUENCY 100kHz
PULSE REPETITION INTERVAL
8870 89.700 Microseconds

Joins page 16

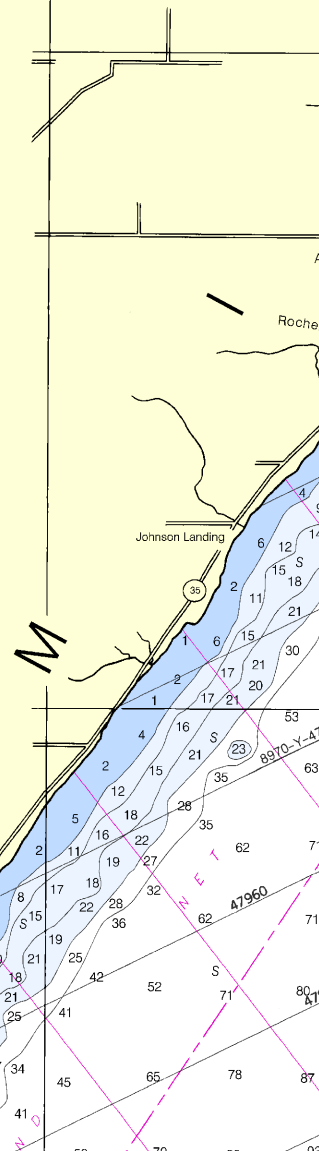
CAUTION
Temporary changes or deviations of navigation are not indicated on this chart. Local Notice to Mariners.
During some winter months, certain aids to navigation may be replaced by other types or removed. See U.S. Coast Guard Light List.

NOAA WEATHER RADIO
The NOAA Weather Radio below provide continuous weather information. The reception range is typically 25 nautical miles from the antenna as much as 100 nautical miles in high elevations.
Escanaba, MI KZZ-35
Green Bay, WI KIG-65
Sister Bay, WI WXN-69

RADAR REFLECTORS
Radar reflectors have been placed to aid navigation. Reflector identification on the chart is omitted from this chart.

CAUTION
Improved channels shown by dashed lines are subject to shoaling, particularly in the winter months.

(P) Pump-out facilities



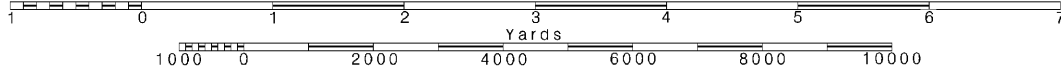
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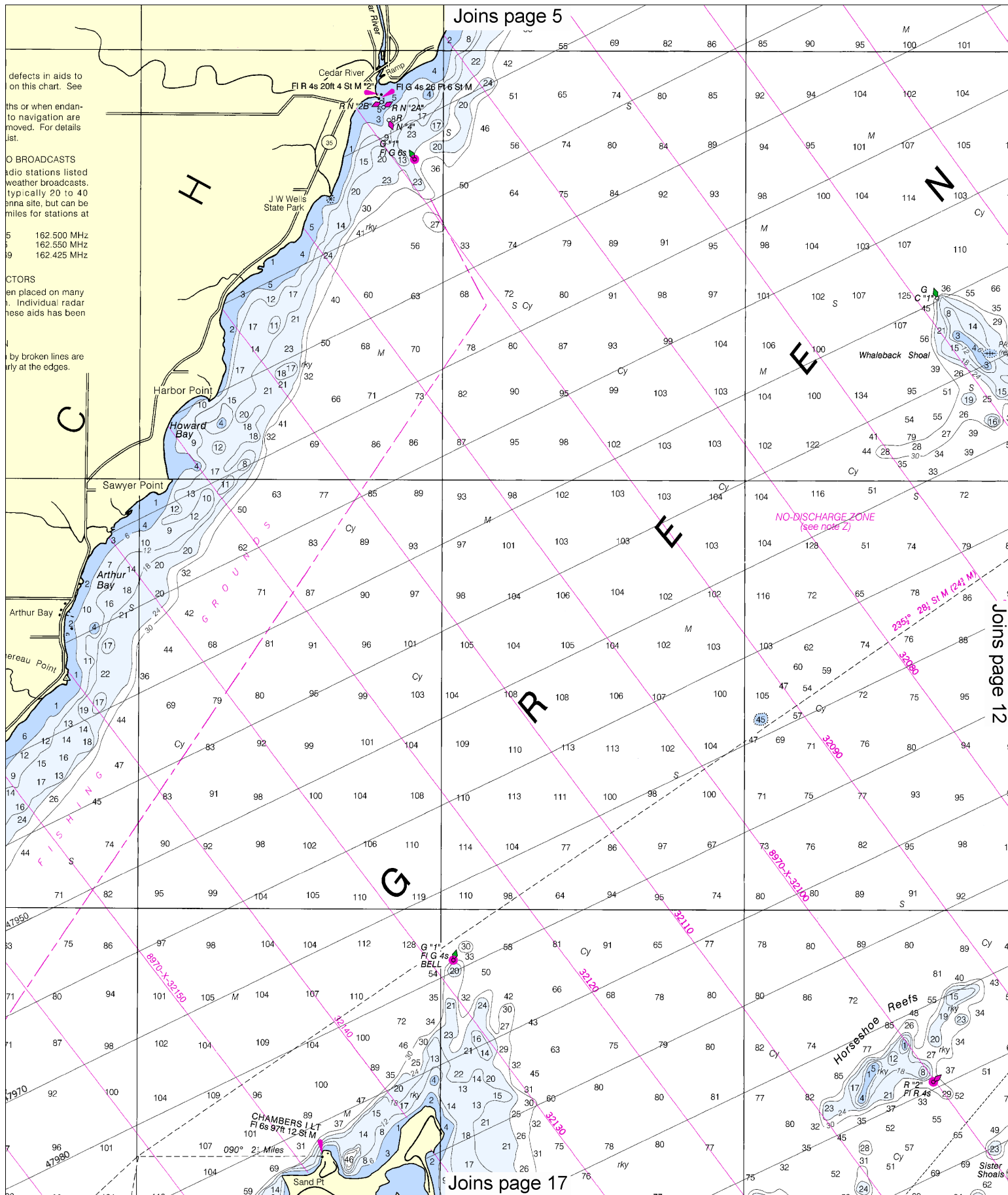
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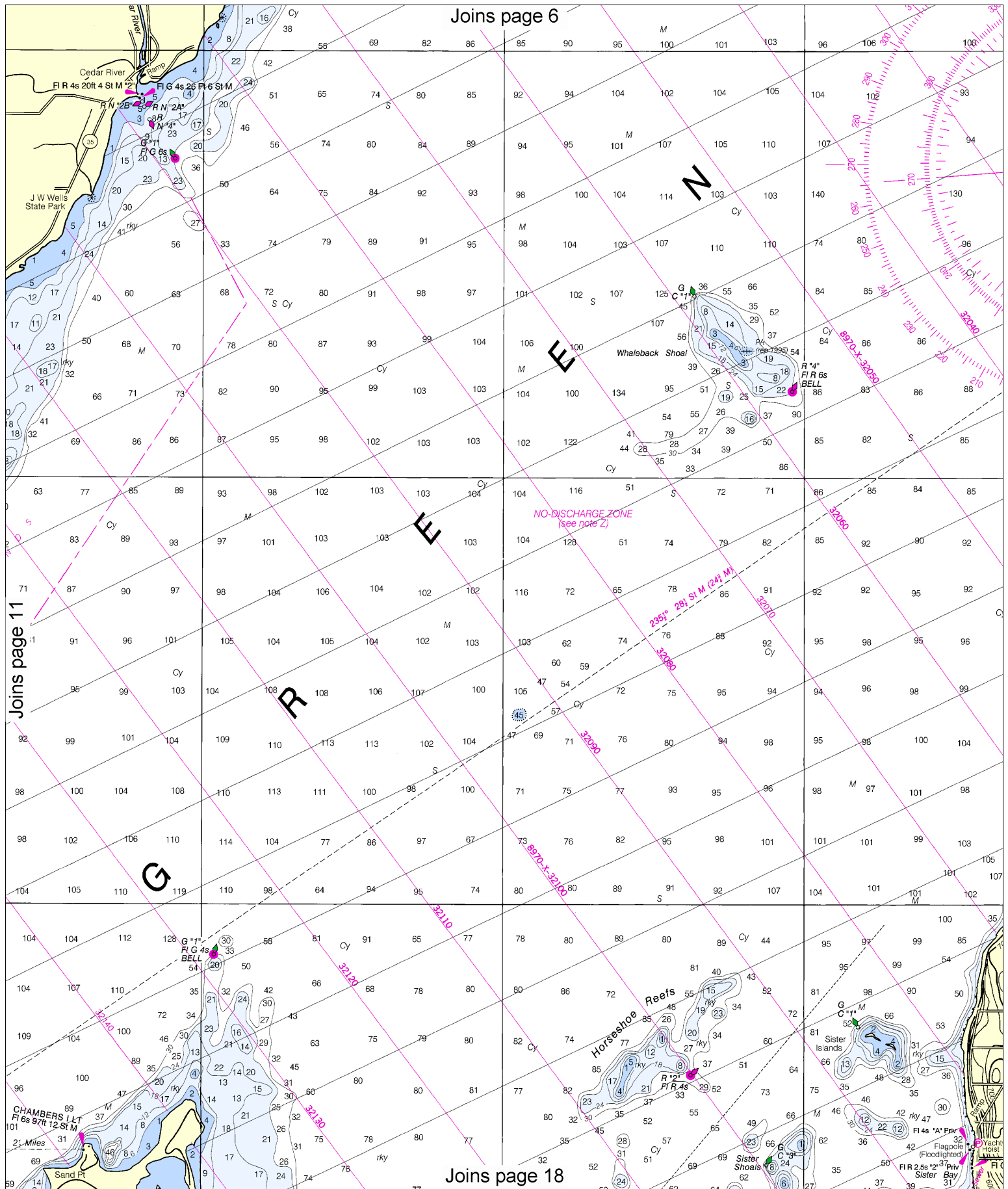
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SCALE 1:80,000
Nautical Miles

See Note on page 5.

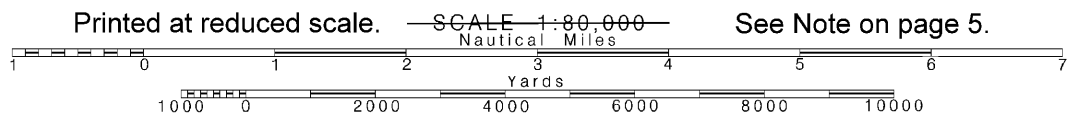


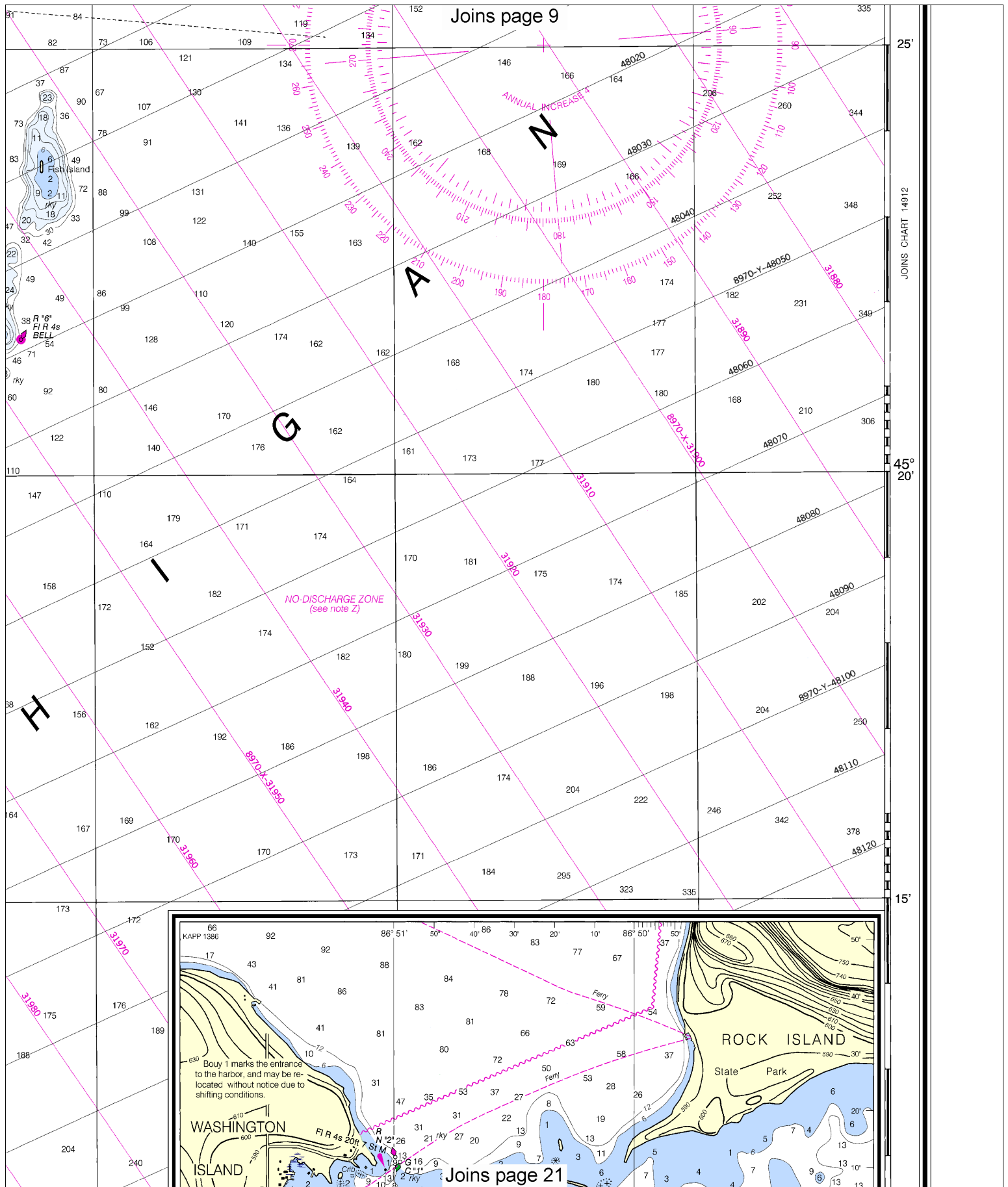




12

Note: Chart grid lines are aligned with true north.





to the World Geodetic System 1984 (WGS 84). Geographic positions referred to the North American Datum of 1902 must be corrected an average of 0.328' southward and 0.692' westward to agree with this chart.

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LORAN-C GENERAL EXPLANATION

LORAN-C FREQUENCY 100kHz
PULSE REPETITION INTERVAL
8970 89,700 Microseconds
STATION TYPE DESIGNATORS: (Not individual station letter designators).
M Master
W Secondary
X Secondary
Y Secondary
Z Secondary

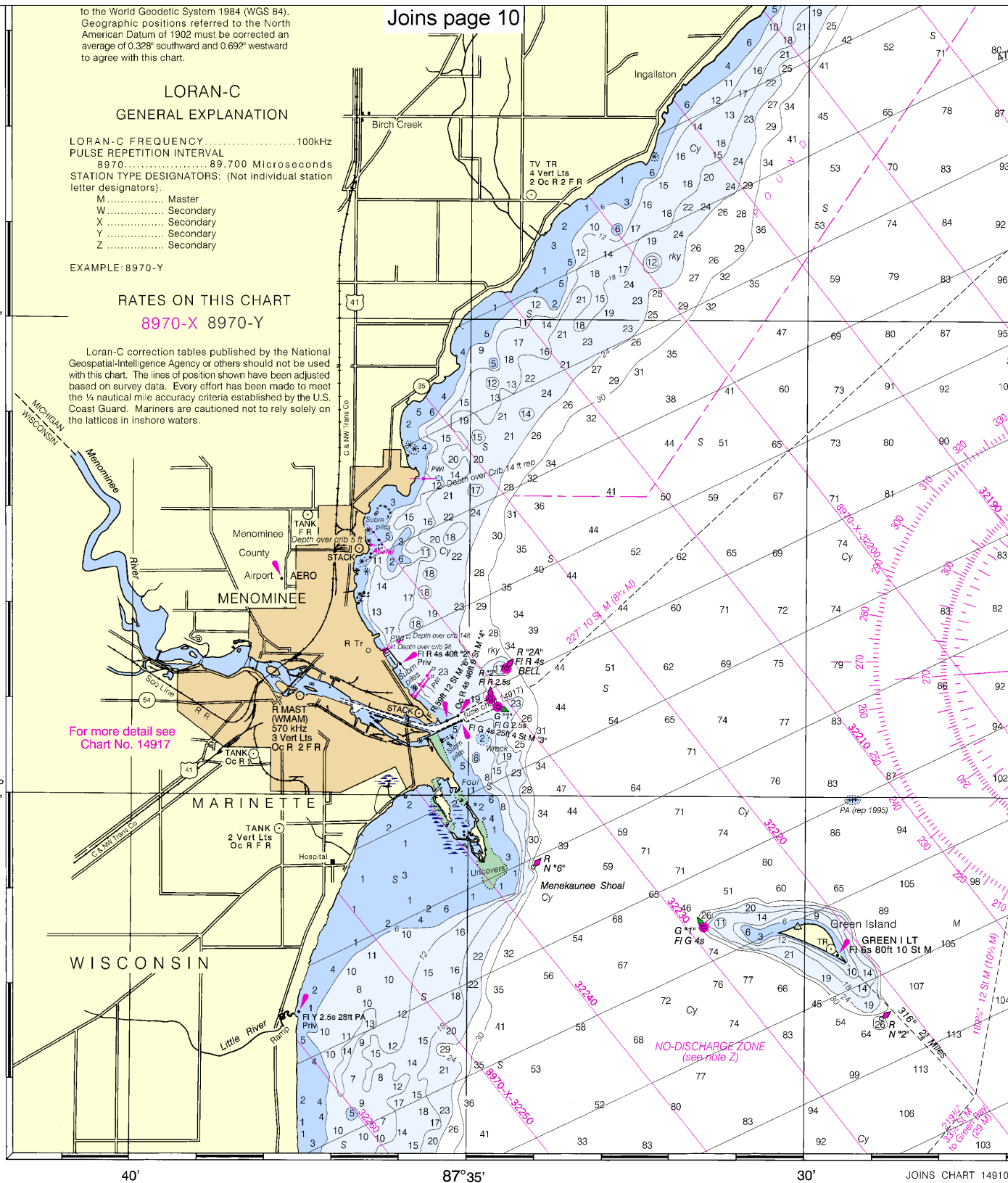
EXAMPLE: 8970-Y

RATES ON THIS CHART

8970-X 8970-Y

Loran-C correction tables published by the National Geospatial-Intelligence Agency or others should not be used with this chart. The lines of position shown have been adjusted based on survey data. Every effort has been made to meet the 1/4 nautical mile accuracy criteria established by the U.S. Coast Guard. Mariners are cautioned not to rely solely on the lattices in inshore waters.

For more detail see
Chart No. 14917



20th Ed., Jul. /05 ■ Corrected through NM Jul. 23/05
Corrected through LNM Jul. 19/05

14909

LORAN-C OVERPRINTED

CAUTION

This chart has been corrected from the Notice to Mariners (NM) published weekly by the National Geospatial-Intelligence Agency and the Local Notice to Mariners (LNM) issued periodically by each U.S. Coast Guard district to the dates shown in the lower left hand corner.

This nautical chart has been des Ocean Service encourages users to s improving this chart to the Chief, M Service, NOAA, Silver Spring, Maryl

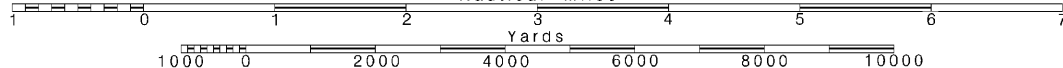
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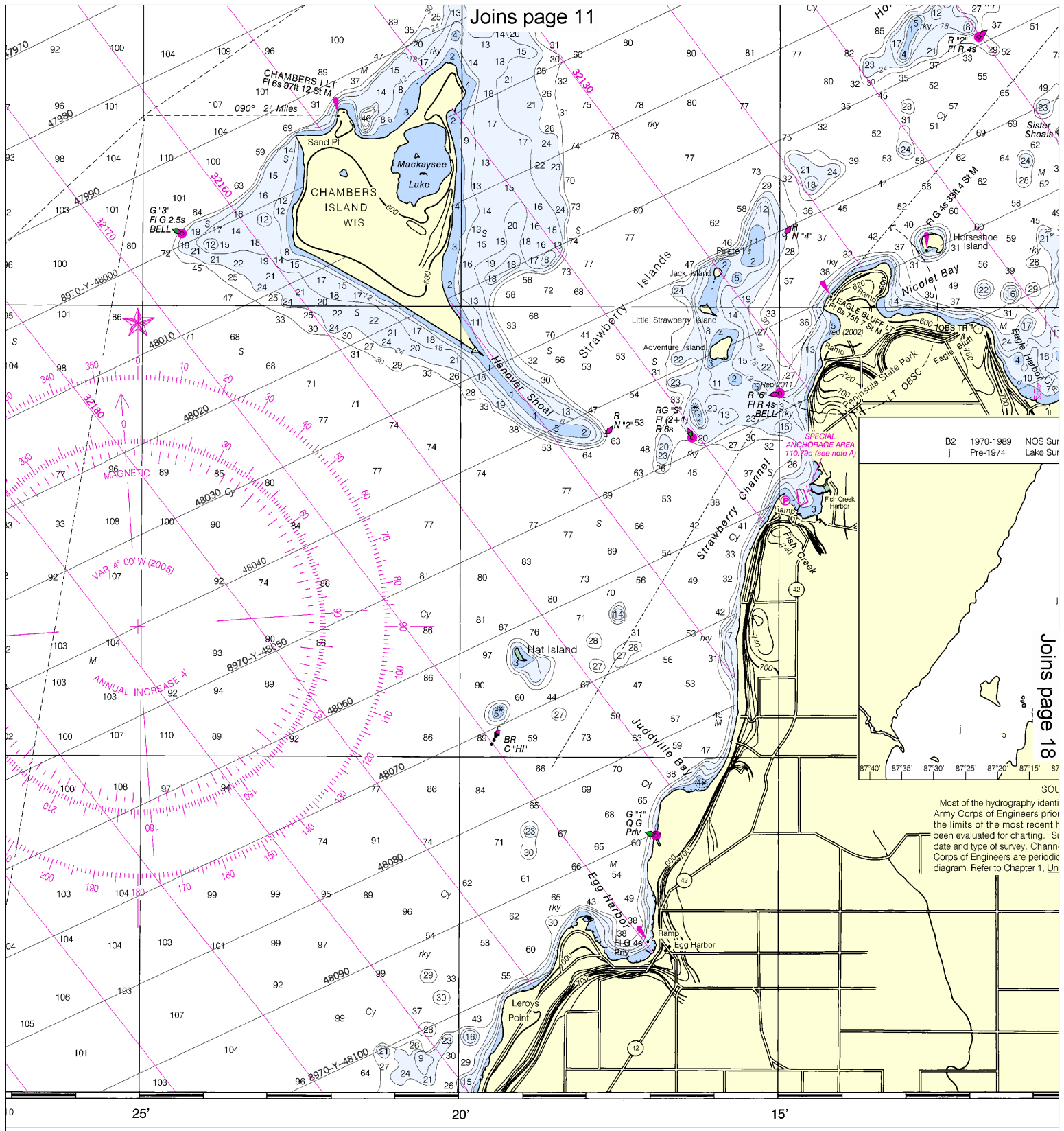
Note: Chart grid lines are aligned with true north.

Printed at reduced scale.

SCALE 1:80,000
Nautical Miles

See Note on page 5.

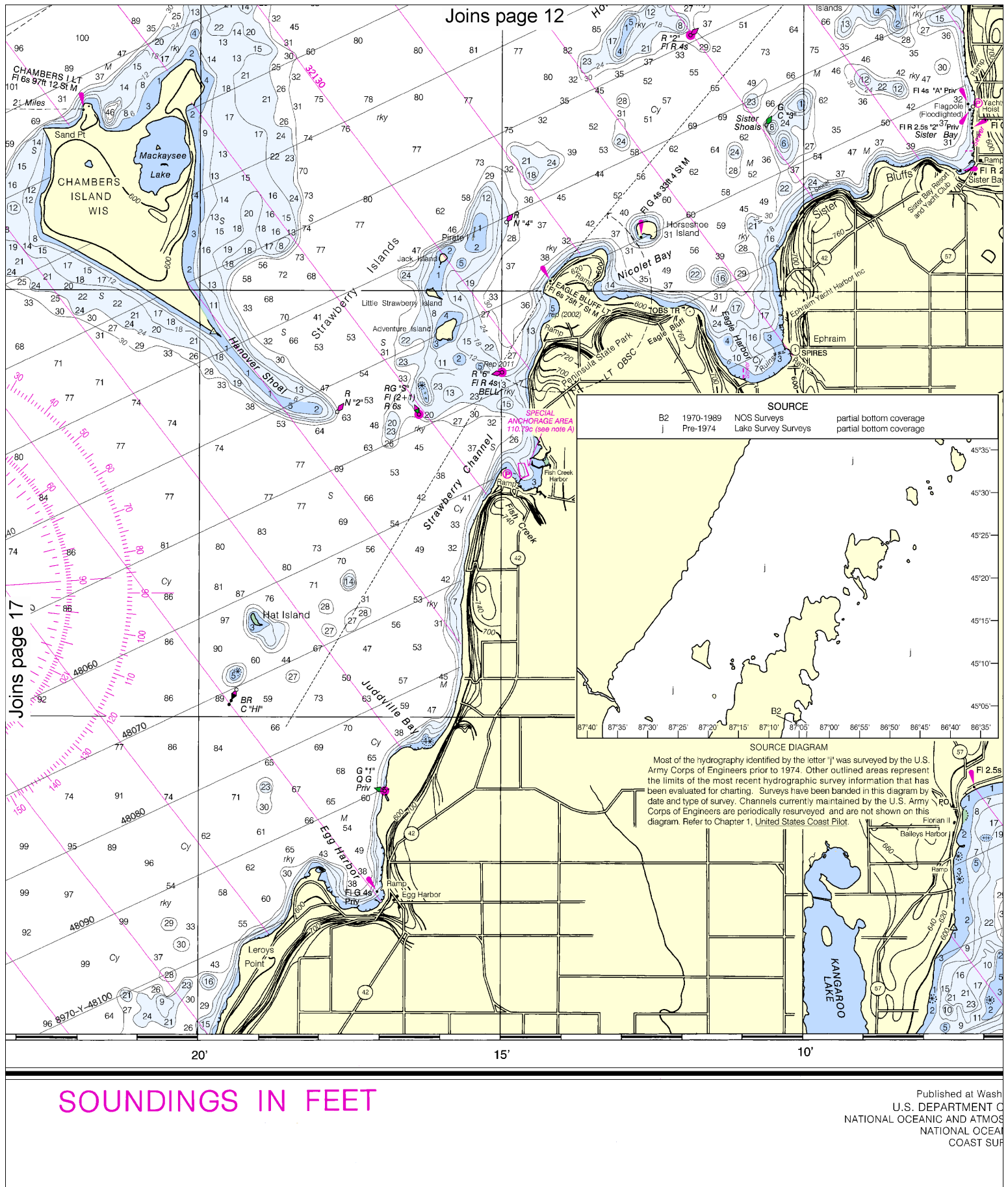




assigned to promote safe navigation. The National
submit corrections, additions, or comments for
Marine Chart Division (N/CS2), National Ocean
land 20910-3282.

SOUNDINGS IN FEET

Most of the hydrography ident
Army Corps of Engineers prior
the limits of the most recent
been evaluated for charting. S
date and type of survey. Chann
Corps of Engineers are periodic
diagram. Refer to Chapter 1, Un

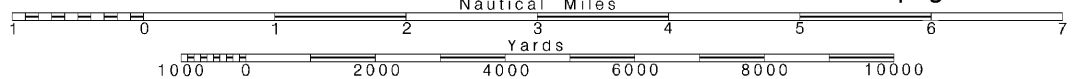


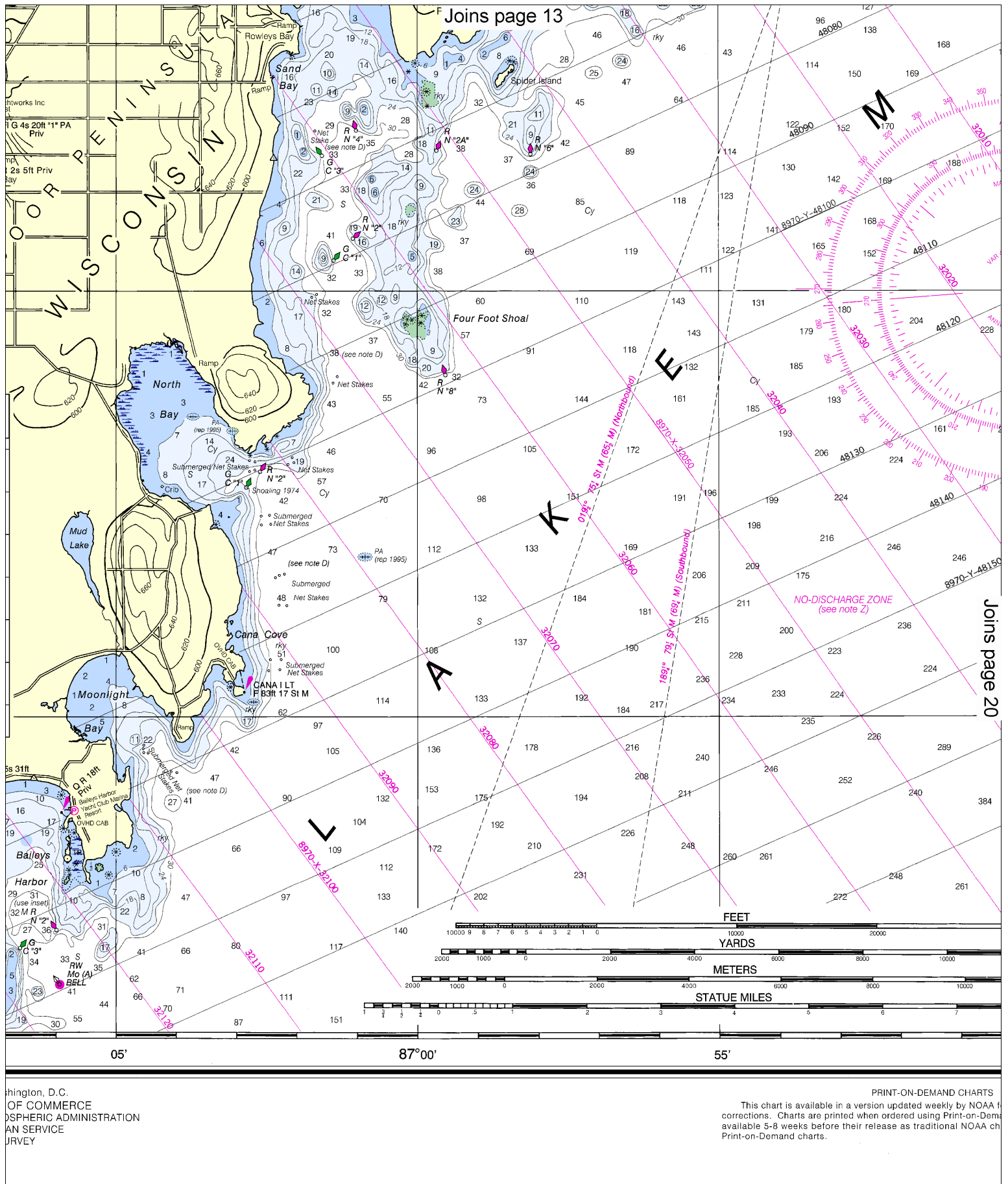
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SCALE 1:80,000
Nautical Miles

See Note on page 5.







VHF Marine Radio channels for use on the waterways:

Channel 6 – Inter-ship safety communications.

Channel 9 – Communications between boats and ship-to-coast.

Channel 13 – Navigation purposes at bridges, locks, and harbors.

Channel 16 – Emergency, distress and safety calls to Coast Guard and others, and to initiate calls to other

vessels. Contact the other vessel, agree to another channel, and then switch.

Channel 22A – Calls between the Coast Guard and the public. Severe weather warnings, hazards to navigation and safety warnings are broadcast here.

Channels 68, 69, 71, 72 and 78A – Recreational boat channels.

Getting and Giving Help — Signal other boaters using visual distress signals (flares, orange flag, lights, arm signals); whistles; horns; and on your VHF radio. You are required by law to help boaters in trouble. Respond to distress signals, but do not endanger yourself.

Distress Call Procedures

- Make sure radio is on.
- Select Channel 16.
- Press/Hold the transmit button.
- Clearly say: "MAYDAY, MAYDAY, MAYDAY."
- Also give: Vessel Name and/or Description; Position and/or Location; Nature of Emergency; Number of People on Board.
- Release transmit button.
- Wait for 10 seconds — If no response Repeat MAYDAY call.

HAVE ALL PERSONS PUT ON LIFE JACKETS!



NOAA Weather Radio All Hazards (NWR) is a nationwide network of radio stations broadcasting continuous weather information directly from the nearest National Weather Service office. NWR broadcasts official Weather Service warnings, watches, forecasts and other hazard information 24 hours a day, 7 days a week.

<http://www.nws.noaa.gov/nwr/>

Quick References

Nautical chart related products and information	—	http://www.nauticalcharts.noaa.gov
Online chart viewer	—	http://www.nauticalcharts.noaa.gov/mcd/NOAAChartViewer.html
Report a chart discrepancy	—	http://ocsddata.ncd.noaa.gov/idrs/discrepancy.aspx
Chart and chart related inquiries and comments	—	http://ocsddata.ncd.noaa.gov/idrs/inquiry.aspx?frompage=ContactUs
Chart updates (LNM and NM corrections)	—	http://www.nauticalcharts.noaa.gov/mcd/updates/LNM_NM.html
Coast Pilot online	—	http://www.nauticalcharts.noaa.gov/nsd/cpdownload.htm
Tides and Currents	—	http://tidesandcurrents.noaa.gov
Marine Forecasts	—	http://www.nws.noaa.gov/om/marine/home.htm
National Data Buoy Center	—	http://www.ndbc.noaa.gov/
NowCoast web portal for coastal conditions	—	http://www.nowcoast.noaa.gov/
National Weather Service	—	http://www.weather.gov/
National Hurricane Center	—	http://www.nhc.noaa.gov/
Pacific Tsunami Warning Center	—	http://ptwc.weather.gov/
Contact Us	—	http://www.nauticalcharts.noaa.gov/staff/contact.htm



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This Booklet chart has been designed for duplex printing (printed on front and back of one sheet). If a duplex option is not available on your printer, you may print each sheet and arrange them back-to-back to allow for the proper layout when viewing.

NOAA's Office of Coast Survey



The Nation's Chartmaker